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**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/099,307**DATE: 06/29/98
TIME: 13:01:20*INPUT SET: S27038.raw**2/2*

This Raw Listing contains the General
Information Section and up to the first 5 pages.

1 **SEQUENCE LISTING**
23 (1) General Information:
45 (i) APPLICANT: Ertl, Johann
6 Habermann, Paul
7 Geisen, Karl
8 Seipke, Gerhard
9**ENTERED**10 (ii) TITLE OF INVENTION: Novel Insulin Derivatives Having A
11 Rapid Onset of Action
1213 (iii) NUMBER OF SEQUENCES: 11
1415 (iv) CORRESPONDENCE ADDRESS:
16 (A) ADDRESSEE: Finnegan, Henderson, Farrabow, Garrett &
17 Dunner
18 (B) STREET: 1300 I Street, N.W.
19 (C) CITY: Washington
20 (D) STATE: D.C.
21 (E) COUNTRY: USA
22 (F) ZIP: 20005-3315
2324 (v) COMPUTER READABLE FORM:
25 (A) MEDIUM TYPE: Floppy disk
26 (B) COMPUTER: IBM PC compatible
27 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
28 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
2930 (vi) CURRENT APPLICATION DATA:
31 (A) APPLICATION NUMBER: US
32 (B) FILING DATE:
33 (C) CLASSIFICATION
3435 (viii) ATTORNEY/AGENT INFORMATION:
36 (A) NAME: Leslie McDonell
37 (B) REGISTRATION NUMBER: 34,872
38 (C) REFERENCE/DOCKET NUMBER: 02481.1597-00000
3940 (ix) TELECOMMUNICATION INFORMATION:
41 (A) TELEPHONE: (202) 408-4000
42 (B) TELEFAX: (202) 408-4400
4344 (2) INFORMATION FOR SEQ ID NO: 1:
45--> *X*

**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/099,307**DATE: 06/29/98
TIME: 13:01:23**INPUT SET: S27038.raw**

47
48 (i) SEQUENCE CHARACTERISTICS:
49 (A) LENGTH: 21 amino acids
50 (B) TYPE: amino acid
51 (C) STRANDEDNESS: single
52 (D) TOPOLOGY: linear
53
54 (ii) MOLECULE TYPE: peptide
55
56
57
58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
59
60 Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu
61 1 5 10 15
62
63 Glu Asn Tyr Cys Asn
64 20
65
66 (2) INFORMATION FOR SEQ ID NO: 2:
67
68 (i) SEQUENCE CHARACTERISTICS:
69 (A) LENGTH: 30 amino acids
70 (B) TYPE: amino acid
71 (C) STRANDEDNESS: single
72 (D) TOPOLOGY: linear
73
74 (ii) MOLECULE TYPE: peptide
75
76
77
78 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
79
80 Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
81 1 5 10 15
82
83 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr
84 20 25 30
85
86 (2) INFORMATION FOR SEQ ID NO: 3:
87
88 (i) SEQUENCE CHARACTERISTICS:
89 (A) LENGTH: 30 amino acids
90 (B) TYPE: amino acid
91 (C) STRANDEDNESS: single
92 (D) TOPOLOGY: linear
93
94 (ii) MOLECULE TYPE: peptide
95
96
97 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
98
99 Phe Val Lys Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr

**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/099,307**DATE: 06/29/98
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100 1 5 10 15
101
102 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Glu Thr
103 20 25 30
104

105 (2) INFORMATION FOR SEQ ID NO: 4:

106
107 (i) SEQUENCE CHARACTERISTICS:
108 (A) LENGTH: 30 amino acids
109 (B) TYPE: amino acid
110 (C) STRANDEDNESS: single
111 (D) TOPOLOGY: linear

112
113 (ii) MOLECULE TYPE: peptide
114
115
116

117 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

118
119 Phe Val Lys Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
120 1 5 10 15
121
122 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Ile Lys Thr
123 20 25 30
124

125 (2) INFORMATION FOR SEQ ID NO: 5:

126
127 (i) SEQUENCE CHARACTERISTICS:
128 (A) LENGTH: 30 amino acids
129 (B) TYPE: amino acid
130 (C) STRANDEDNESS: single
131 (D) TOPOLOGY: linear

132
133 (ii) MOLECULE TYPE: peptide
134
135
136

137 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

138
139 Phe Val Lys Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
140 1 5 10 15
141
142 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Ile Pro Lys Thr
143 20 25 30
144

145 (2) INFORMATION FOR SEQ ID NO: 6:

146
147 (i) SEQUENCE CHARACTERISTICS:
148 (A) LENGTH: 97 amino acids
149 (B) TYPE: amino acid
150 (C) STRANDEDNESS: single
151 (D) TOPOLOGY: linear

152

**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/099,307**

DATE: 06/29/98
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INPUT SET: S27038.raw

153 (ii) MOLECULE TYPE: peptide
154
155
156
157 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
158
159 Met Ala Thr Thr Ser Thr Gly Asn Ser Ala Arg Phe Val Lys Gln His
160 1 5 10 15
161
162 Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr Leu Val Cys Gly Glu
163 20 25 30
164
165 Arg Gly Phe Phe Tyr Thr Pro Glu Thr Arg Arg Glu Ala Glu Asp Pro
166 35 40 45
167
168 Gln Val Gly Gln Val Glu Leu Gly Gly Pro Gly Ala Gly Ser Leu
169 50 55 60
170
171 Gln Pro Leu Ala Leu Glu Gly Ser Leu Gln Lys Arg Gly Ile Val Glu
172 65 70 75 80
173
174 Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu Glu Asn Tyr Cys
175 85 90 95
176
177 Asn
178
179
180 (2) INFORMATION FOR SEQ ID NO: 7:
181
182 (i) SEQUENCE CHARACTERISTICS:
183 (A) LENGTH: 97 amino acids
184 (B) TYPE: amino acid
185 (C) STRANDEDNESS: single
186 (D) TOPOLOGY: linear
187
188 (ii) MOLECULE TYPE: peptide
189
190
191
192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
193
194 Met Ala Thr Thr Ser Thr Gly Asn Ser Ala Arg Phe Val Lys Gln His
195 1 5 10 15
196
197 Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr Leu Val Cys Gly Glu
198 20 25 30
199
200 Arg Gly Phe Phe Tyr Thr Ile Lys Thr Arg Arg Glu Ala Glu Asp Pro
201 35 40 45
202
203 Gln Val Gly Gln Val Glu Leu Gly Gly Pro Gly Ala Gly Ser Leu
204 50 55 60
205

**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/099,307**DATE: 06/29/98
TIME: 13:01:28**INPUT SET: S27038.raw**

206 Gln Pro Leu Ala Leu Glu Gly Ser Leu Gln Lys Arg Gly Ile Val Glu
207 65 70 75 80
208
209 Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu Glu Asn Tyr Cys
210 85 90 95
211
212 Asn
213
214
215 (2) INFORMATION FOR SEQ ID NO: 8:
216
217 (i) SEQUENCE CHARACTERISTICS:
218 (A) LENGTH: 97 amino acids
219 (B) TYPE: amino acid
220 (C) STRANDEDNESS: single
221 (D) TOPOLOGY: linear
222
223 (ii) MOLECULE TYPE: peptide
224
225
226
227 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
228
229 Met Ala Thr Thr Ser Thr Gly Asn Ser Ala Arg Phe Val Lys Gln His
230 1 5 10 15
231
232 Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr Leu Val Cys Gly Glu
233 20 25 30
234
235 Arg Gly Phe Phe Tyr Ile Pro Lys Thr Arg Arg Glu Ala Glu Asp Pro
236 35 40 45
237
238 Gln Val Gly Gln Val Glu Leu Gly Gly Pro Gly Ala Gly Ser Leu
239 50 55 60
240
241 Gln Pro Leu Ala Leu Glu Gly Ser Leu Gln Lys Arg Gly Ile Val Glu
242 65 70 75 80
243
244 Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu Glu Asn Tyr Cys
245 85 90 95
246
247 Asn
248
249 (2) INFORMATION FOR SEQ ID NO: 9:
250
251 (i) SEQUENCE CHARACTERISTICS:
252 (A) LENGTH: 21 amino acids
253 (B) TYPE: amino acid
254 (C) STRANDEDNESS: single
255 (D) TOPOLOGY: linear
256
257 (ii) MOLECULE TYPE: peptide
258

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**SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/099,307**

DATE: 06/29/98
TIME: 13:01:30

INPUT SET: S27038.raw

Line	Error	Original Text
32	Wrong application Serial Number	(A) APPLICATION NUMBER: US